

Communication System, Method and Apparatus with Dual Pilots

Abstract of the Disclosure

A communication system (100) includes a method and apparatus for a hard handoff and followed by a soft handoff when a mobile station moves from a first cell site (110) to a second cell site (120) operating over the same frequency assignment. The communication system (100) includes a first cell site primary transceiver system (151) and a second cell site primary transceiver system (161) for providing communication coverage respectively in the first and second coverage areas (150, 160). A first cell site secondary transceiver system (162) and a second cell site secondary transceiver system (152) for providing communication coverage in respectively the second and first coverage area (160, 150). The hard handoff is between the first cell site primary transceiver system (151) and the second cell site secondary transceiver system (152), and the followed soft handoff is between the primary and the secondary transceiver systems (161, 152).